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# Shifting Cultivation in Orissa

N. PATNAIK

#### PART I

#### SHIFTING CULTIVATION IN ORISSA

form or other in almost all districts of Oriesa. It is the common method of cultivation in the forests and hife of the tribal wass of the State. The primitive tribal communities on shifting guidyetien. It is known as Dahi (firing), Kamen (Saving) and Talla (up fand) among the Juang of the Keoniher hits, as Birings or Keman among the Paudi Bhuinya of Benzi Subdivision and Bhulnya Pith of Keoniber district, as Begada or Sasban among the Slegre of Ganism, Malishs, su Hery by she Dangeria Khorsd of Korsput district, se Reme by the Desie Khand of Rairekhol and Barres Subdivisions and as Liveng or Kunde chee by the Bande of Korsput district. Shifting suffication is contribut by the Kove of Karaous dietrics in the foot-bills, It is more or less like Dahi cultivation, which is artensively practiced in Sembelous, Roleonic Kalabandi, Koracut and Ganlam The Kove term for shifting auditation is Lookanadeened.

There are other types of cultivation which are more of less shin to the shifting cultivation. They are Transpya cultivation. Dalas cultivation. They are Transpya cultivation. Dalas cultivation and Theilis or Gens cultivation. The method of raising new copes of fewest toxes is generally known as Toursper cultivation. In prints[de, it meethy occasions in feeling a piace of fecent in the more or less the finition could which whiting cultivation is precision.

in a particular patch is guaranteed by the forest department this place of forest land and free for a couple of years to rules agricultural comes on the opticities that the lathful comes on the opticities that the lathful comes on the opticities of the lathful of its such a year of the lease se they be side own by the boson dispatement, "Thus when the appliculturist vectors the lead, a young forest crops of over investigation of the proportion of the property of the proportion of the property of pro

The agriculturist who undertakes the felling

Dahlis cultivation is different foom Taungya cultimation. In this case homenhas of transparer out and agreed over cultivated fields at the cost of the hills. After a tape of time they are beaute on eat to provide the stall sum the server on except provide the stall sum the server which are required for growing crops:

Another form of Ophia is that the force opened at a highest level of the high-size of the cut and bent before monoton assis in the cut that the first arrower weaken down the anter into the cultivated field's at the foot-mills. Both the system of Dahla cultivation are precised in weatern parts of Sambelgow, Newspan of Dahla cultivation in Kneeput and Gangen Maishib. Their and Garage Maishib. Their and Garage and Gangen Maishib. Their and Cuttive on a statement of the cut of the

plece of level or slightly sloping land at the foot-hill. Paddy and vegetables are grown on Thails lend.

### Techniques of Shifting Cultivation

Shifting cultivation is cultivation by rotation in the hilf-slope and hilf-top by the method of slash-and-burn tiflage. Some of the salient features of the shifting cultivation are feated before—

(1) All activities connected with shifting cultivation are performed mostly by communal Jahour in Northern Orisis. The hill-slopes which are to be cultivated are choosen at a common village meeting. According to the needs and consent of the community the string of land are narcelled out among different families inhabiting the village. The lands trader shifting cultivation are communally held. But as long as a person is in outsiveting possession of a piece of swidden, he is recognised so its owner. As soon as it is left to rest is becomes the property of the community. In Southern Orises the pattern of ownership in respect of the lends under ahithing cultivation is different. The Spore and the Khondy regard the fands under shifting cultivation as their own. Such lands are handed down from father to son. Orlean who precise shifting cultivation regard their respective swiddens as private property. The land under shifting cultivetion is hought, sold and moregood. As a mensy of fact the pibes do not have any title in such lands, but the public opinion enjoins individual awarentip over tands under ehifting outhwarion.

(2) The selfeling cultivarient is control on their in the hill-dept in the Shi-Beyo sind at the Shi-Beyo in the bit-Beyo in the bit-Beyo in Oxybern Ordane and only in the bit-Beyo in Oxybern Ordane. The jumple-bestings encourses cuttling down grasses and the votes. The interest of Senthern Bearing the stock of Sentern Sentence and Control of Sentence and S

other combustible matter at various places in the swiddlens. This triplus of Southeam Offices do not usually sow beens in the clearings, and therefore the "phost focess" of dead tree which are left standig to serve as been-stalls in the swiddlens of the Bhulings of Montham Offices are not mot with any when in the stillul serves of Southam.

Most of the tribel communities work the sail in the aviddens by meens of hoe or mettock. The tribes of Southern Drissa sow the seeds before the moresoon sets in. But their pounterparts in Northern Orlsta do it during the moreoon. The women ere forbidden to take part in the lungle clearing emong the Juana and the Bhulm's where as there is no such taboo associated with this work among the Saors and other tribal communities of Southern Drises All silbel communitios pedpers the works of weeding carefully in the ewiddens. The Bhuinva and the Joang top the cespice shoots coming out of the firm. But the Sanra evold any damange to such shoots as they set young green lanes of parties place species, and therefore leave the stools unaffected for olving them adhie sound foliana

Missed ongos of hill peolify, retror reliefes, oblies an grown is sphilling cultivation and they see hancessed in succession. The manners of theresting as noticed among the Bonda is possible related to the templated of Bondard States of the day's Stock, thereby all which their feet, hashing, clearling, coulding and setting immediately. This States have their third-ships Stock in the settilistic whomas the Congoid Echand have their Stateship Stock in the settilistic whomas the Congoid Echand have their Stateship Stock in the settilistic stateship Stock in the settilistic

(3) A piece of land is used for two or three years when successively different crops are sown. Then it is absorbed so that it could recuperate. A mixed crop of ceredit, milited and pulses such as elevative, concesses, pesicion milites and particum inforcem, copienes indices and dollars bifforms is grown in the suiddens. The practice of

growing a mixed crop is dictated by their food habits and ecological condition.

This recognished species of the region to the region. It is all allowed seatment of the region, the region of the

CUI Cristin interes are streamed in solving and the control of the

### Area under Shifting Cultivation

Before the Separate Sales of Ocean was been as 1 feet of the Separate of the

cultivation was only about 300 sq. miles in assaut prior to 1930 whereas it become nearly 12,000 sq. miles in 1848; the population of the hill tibes engaged in the type of cultivation did not fell for blood tiples at the time. The problem alone then has become very serious.

The Tribal Research Institute of the Government of Orlean conducted banchmark survey in different parts of the Style Calculated on the basis of this survey the antal land affected by the shifting cultivation was estimated at 46,600 acres and the total population engaged in shifting cultivation would not exceed 240,000 papels. The estimated area given by the lostitute circumscribed the whole tract within wolth not only the shifting cultivation was canled out but also other types of outlivation akin to it were sleo precised. Therefore, the gran eermarked exclusively for shifting outlivelies would be much less. The resson for tile betwien the whole area which included all types of cultivation was that whereaver shifting cultivation was exclusively practiced. it not only affected the bills but also the sorounding area. As the influence of stifting cultivation was far reaching the entire region within which such guitivation was carried out in a facos soals was taken into account for the purpose of analysis of the effects of shifting cultivation. The Appendix-1 shows the even affected by strifting cultivation in the various clatriets of Oriese and the tribal population which depends on this method of cultivation for

According to the report on Evadon Assessment of Ottas (From Ent. Seetle Otto Control of the Cont

### SAORA METHODS OF AGRICULTURE

Dhan and the late variety called Bads Dhan. The Seers of Ganjern district. Oriese practice three kinds of cultivation in the The Table 1 gives month-wise egricultural postations in the tempord fields. little gardens or homestead lands near their

houses, on their terraces, and in the awiddens on the hill-slopes. The Kitchen gardens raised near their houses are called Janamium and are care-

fully fenced and menured with cow dung and village refuse. Vegetables like pumpkin, cucumber, and been are prown. In some places tobecco, melas and pinger are also DECIME. The terraced fields which go by the name

Sorban ar are exclusively meant for paddy cultivation. The terraces are built right up the beds of hill-streams and extends many bundreds of lest from the depths of the valleys to the NII-slopes and in some places pising up to the hill-tops.

The terraces are works of creat engineering skill. The platform of each turnace is flat throughout and the fall of each tenace is stone packed. The construction of the terraces is no ingeniously and skillfully media that no soil is carried down by the water that flows from higher terraces to the lower

The water management is equally skillful. The flow of water from one senace to the other is controlled by chennels and oun-lets for water which are provided in the ridges of the terraces. The water menamement is so perfect that it evolds flooding of the terraced fields. In many places water trickles level to level through stone fancings. and ultimately flows down into the lends in the plains. But in no case either the soil is certied over by water from the terraped fields or any damage is caused to the stone walls. The incervious methods of Imperior which have been devised to control flooding of the fields is remarkable.

As weter is always available peddy is grown twice a year in the terraced fields. Two varieties of paddy are transplanted in the terraced fields early variety called Assist

Table 1 (Agricultural operations of terraced collivation)

variety Nature of (Bada Ohan) (Arribe Dhan) works

December 1. Preparation of June seed-bed 2. Transplants - July February

tion. Andi S. Weeding . . September November May-lone 4. Harvestind

December. Some prospessive termen among the Secon have taken to cultivation of high violating varieties of paddy such as Jaya and Raths and also mody nocessary fertilizers and nexticides, which are supplied to them by the

Block. As all people do not have terreced fields large-scale adoption of improved agricultural practices is not possible at present. Apart from the shortage of terraced lands the limitations set by the sensin and administration evigencement also hinder adnotion of agricultural (encyations in a wide scale.

Terraced fields are privately owned and are handed down from father to son. They are mortgaged to local money and peddy landers who are mostly of Pana community. The these possess much influence in the Saure country and are mainly brokers, pediars and sycophants. In alsot, they live prosperously on the ignorance and superstition of the Saors. The semaced fields are confined to certain

pockets in the Saors country. Therefore the Sears of nearby and far off villages are drawn together to such places where terraced field are available for cultivation. In the case est abilities cultivation the nerfolione sets activation and libits of the Sacce country. The lared limit needs to the set of the secondary of the lared limit needs to the set of the secondary of the lared limit needs to the secondary of the lared limit needs to the set of the cultivation of different types of copes. Therefore the people of a Sacce village have their existence in maturity as well as the off hids. The Sacce system of agriculture below the secondary of the second

The Sapra observe certain situals in connection with tensced cultivation. The principal one is connected with transplanta-Sion. Before the seedlings are pulled up for transplantation, a ritual is performed in the seedbed. On this occasion dried fish and fowl are offered to a dainy called John belief is that the deity will be pleased and protect the plents from the attack of the insects and reward the people with a bumper crop. About 40 kps. of seeds are required for an agre of senaced land which gives an yield of about 800 Kgs. of paddy in rabi seeson and 500 kgs, of peddy in Khariff season. At the rate of Re. 0:50 palse per kg. a farmer cets nearly. Rs. 400 worth of esbipaddy and Rs. 250 worth of khariff paddy from an acre of serreced land. The total expenses per sore of terraced land come to Re. 200. Thus a Seora cets a net profit of Re. 200 rabil crop and only Rs. 80 from the Rhwitt crop

#### Shifting Cultivation

The work is the forest-clearings strike from the month of November. The first work which is done in this motion is the work which is done in this motion is the month of the month of November in called Griging part which makes the work of clearing continues the forest. The work of clearing continues month is called Timber gave which means the month of covering forests in these two months the worsen can down the under month of covering forests. In these two months the worsen can down the under the worsen can down the under the worsen can be considered to the worsen and in action of the worse of action with the help of axes. After the tweet we set that the worsen covering the contract of the cont

pieces and pile the combustible matter into

The felled materials which are collected acts began are left for about them months to different bed for about them months to different bed died matter and that it away the month is called. Adiated age the month is called. Adiated age the month of high it is the work of workers to burn the died matter. No second fine to call from the purpose, them materials or a figure to the called the called

This Secur cut the eres high above the ground as that the exolo of the fields these remain's seasofting. The purpose of criting the treas-high above the ground is the treas-high above the ground is the coppine schools which come up from the accord of fields there such as Bereit, and a second of field the properties with all present of the properties of the properties of the ground of the ground the properties of the coppine shoots which does not be created from the problem of the coppine shoots which come no formings to a creater called Samestie which also great which also great which also great which of also great which also great which of also great which also great which of also great which also great when of the less than the properties of the properties

In the month of April the Saors sow red gram (Kendula) by propoling the seeds In the holes dibbled by means of a digging stick for this purpose in the suwiddens. The month of April is thus called Gozana ase, that is, the month of sawing red prace. After the red grams heve sprouted they now all the other seeds mixed together, small and large milets like Kengu (Burni). Jana (Kambur), Ganga (Gemga). Ghantle (Kurui), Kusula (Sa) and Mandia (Barusik) and anything else they have like certain types of beens called Balls (Barunal) and country peec like Jhudangs (Kenderun) and Barugudi (Sersimei), scattering all of them broadcast and then working the soil over with their hops. As the work of hoeing is done in the month of May it goes by the name Late gas, the munth of hosing. They grow one kind of citrous plant called Susuneo which provides fibres used for making ropes. The Saors est the leaves and flowers of this plant. They dry the edible perts of the plant and stom them for use wherever needed.

The Sacia do not grow been which the Paudi Bholinya do in their cleanings and therefore do not glicille and kill the treas to make been-stalles. Nor do they plough over their swiddens in the Bhulinya fashise.

As soon as seeds are sown they do the hosing of the cleanings by means of a licked place of wood tipped with a pointed iron so that the sales get mixed up with the coil and also the seeds are covered over.

The task of weeding begins to the month of June and accordingly this month is called Payling gas, the month of weeding. It is done by women with the help of a larife (Rados) made of iron.

From August to Jimsey both mas and forestime out of the specification of the wild-deep spatial the deposition of the depos

In August crops like Kusele, Kangu, small Garge are ready for henvestlen; They haven't Kangu end Kusele by memoring the ears of the crops with a knife and carry them forms wince they threat harm indoors with their feet. But they out the Genga please from the base and divesh them with the halp of biblicitis.

In Nevember crops like Gange, Ghardia, Busquoti and Juspings are restly for har-vesting. They remove the cen of Gange and Good and Gange and Good a

The Sacre dry thans in the threehing floor and threats them with elicids. In January Knootule and Boille are hervested. The Sacra resp the Kanduts by pulling the pode off the shrobe into basicate and threat them with stokes. Baffe is pisolated and threehed by removinion this pode.

The Seque plant turmeric in part of avviddans in which other crops are grown. The hosting of the avoidages before the turmeric plants to grow well. Turmeric is planted once in two years.

Several commonles are attached to the

swiddens. A ceremony is performed on the day of souring. Refers the sands are mixed and sown broadcest the village Bulve and Koday worship the hill-gods by offering them liquor and by socificing fowl and post. Thry worship the goddess Laxer called Site by offering figure and by sacrificing fowd. A small ritual which involves the offering of either a fowl or a goat to the billgod called Barrown is observed towards the end of Acquist after the Kanciu is harvested. The next ceremony follows before the Jana in threshed and Kandula is harvested. On this occasion lowis are offend to the hillgods. The Sanra believe that if these contronies are performed they will not most

com from the swiriders and keen themselves

fit throughout the year.

The Sears use their swiddens for only 3 years and leave it fallow for a period of 6 years. During this time they take up another cleering for shifting cultivation. The swiddone are reparded like paddy fields in the plains as private property, in fact, the Saora have no legal right to them at all. They grams begathern only best block best stigued are themselves. The swiddens are handed down from father to sone. The brothers percel out the swiddens among themselves equally and also change from plot to plot in relation according to their convenience and suitability of the puriddens for orowing different crops. Some swiddens are anord for proving some kinds of coops and some others for other types of crops. For example, Kendula remove year well may the execut of the hills because it receives oun light sufficiently. The swiddens on the hill-slopes in the lower out of the hills we not exitable for Knorlefo cultivation for want of sufficient sun light. proximity and vegetelional cover and men power-the distribution of swiddens among the henthers is made in such a way that all of them get equal apportunity to grow different funds crops. The pwiddens are martagoed whenever needed No contribel who doesnot practice shifting cultivation is interested in having land under shifting cultivation on mortgage. Therefore the business of mortgaging the swiddens is confined to the Sanrus. A Sanra may have his eleavines in different talks and he cuttiwates there in rotation. He has private purposable over a certicular strip of land.

When he wants to return after shifting eller where he must return to that stip and no other.

If is observed that the hills in the Score country are distributed on the basis of lineage (Birinda). According to this custom respons of a perituder Biriside may have

one or two hills exclusively to themselves for the purpose of shifting cultivation. Whon scote one wants to mortgage his leard under shifting cultivation he does so to a mamber of his Billinda. But there are experience to this cultivation.

The swiddens are worked by co-operative effort and reciprocal help which is locally called Anin. The Saxre work in one another's evolutions without any payment of labour charge or wags. But food drink is provided to the volunteers during the work.

The Sacra Golow different methods for altering different types of section. They store the seeds of Barugust seeds. They store the seeds of Barugust seeds and Jundenge is a new earther usual the mouth of which is held with piece of cloth sightly as of this no insect does any harm to the seeds. But they slove the seeds of Kangu. Senga, Janne and Kangule in bemboo beafers with as a seed of Kangul. Senga does not seen the seed of the control of the seeds of th

#### PART III

#### A CASE STUDY OF SHIFTING CULTIVATION

The case study is related to the shifting cultivation as precised by Kinson Sabari of Tunkur village situated in Gumens block of Ginjam district.

Kirsan Sabar scripts on whiting outlieting in four fields. The distance of these hills from his

# village and the area of awardsess in each hall is given in Table 2. Table 2 Distance of the thirt and area of awardsess.

#### SHIFTING

For thee years from 1870 to 1872 he took up. Chicker hit where he cultivated two acres of cinergs. The crops grawn in each of these years and the quantity of cach crop produced is least in Trop land.

Table 3

Crops grown in Rediser Hill with quantity of each trop produced.

Name of the crops			Quantity	
The second second		1870	1971	1972
1. Kondula		8 Pusi	1 Puti	
2. Jane		3 Puti	2 Publ	
3 Kangu		1 Paul		
4 Gangs		} Puti	man.	1 Auto 6 Mana
5 Ghamii			3 Pud	4 Puti
6. Barugudi			0	-
7. Jhudings	-	-		
8. Mandle		_	30 Mans	25 Mans
9. Turmino			Re. 800'00	

Explanation of symbols used: "(...)" not grown, '...' grown but no produce.

In 1973 he shifted to Padursing where he cultivated two scree of land for two years, then is

1973 and 1974. The stops grown wids quantity of tasts trop produced is given in Table 4.

Table 4
Crops grown in Paulurainon

	forms of the crops			Ggg	lenty.	
			15	173	1	874
			Puti	òdana	Poli	Mana
1.	Kendul		6	18	3	
2	Jens	-	8	1.6	4	
3	Koffgu	4.4	3		1	10
4.	Ganga		_			18
5	Ghanda		-		2	10
8	Adançlıı					19
7	Turmeric		69)			Re. 200

Symbol '(--)' means not grown

n. 975 he took up stalling curvation in Kobusargh. In this his his his has had adjacent patches of senddens each of one acre in extent. He cultivated only one patch is swing the other one to recipients. The riggs advance 1976 and 1976 and the quantity of definient in your produced are furnished. In Table 5.

Table 5 Crops grown with quintity produces

	Name of the crops		1975	^	1976	
		Pub	Mena	Pub	Mang	Ri
1	Kenglala			2		
2	Jana	4		2		
3	Kengu	1	10	>		
4	Gorge	2				
5	Ghenbe			3		
6	Beruguds		8	_		
7.	Jhuderge		4			
8	Mandia	_			4	

9 Turmento ...

Expansion of symbols used not grown grown but no populate

Keine Beber sed into generally Bangado. and Jhudango eer grown in the first yeel and Gharitis and Mendia in the escord and following years. If Jama is grown that services in 1 Jama is grown that services of the first rest Certains is grown that yee extratorship in the first yeek. Jama is grown that yeer in still quantity. The reason grown by the first yeek plant plants plants do not allow Kandulin psents to grow humanised and virture with years.

In the current year his plan is to take up cultivation or the second strip of fand or Koturoneck.

The information to far recorded shows that he did not cultivate all the lands which are under his postession in different hills, He took up only those lands for shifting sulfivation in where lummers was parted soft. The head under currents plantation requirehowing for the growth of summire tubers. The livering which is done in the awadesia as an elemental part of agricultural operations for growing crops in the NIE slopes services pilis purpose.

#### Economics of Shifting Cultivation

Entra Steller imparred this following: express or shifting outhwister of two acres of land in Rediser MI. He employed 30 presons for custing the stee. 20 women for bearing the site. 50 presons for bowing. 30 persons for wreading, and leasily 800 persons for harvest lang finings. Geograp, Sense, Renoise Martial and Turmero. The land morber of presions worked in the shifting colorativation was sold that the steel of the

#### SHIFT NG

series required to prescript with the Soot first the workers are previously with the Soot for the workers are previously and the Soot for the shabout time yet and the yet and the yet and time yet and the yet and yet

Jenna. Rice. Cacomber. Curry. Matteus Equate are served to the worksits. The vector is clone and served to the worksits. The vector is clone and served to the months of the things the honers at done in the hot sur-distinguish the honers at done is the hot sur-distinguish the honers at done in the hot sur-distinguish of the termination of the Matteu for the termination of the Matthus (and What Michael Saber speri on food good part clinik for the workers are given in Table 6.

Table 5

Nature of work	No. of workers employed	Types of foodstuff offered	Chantity of feedsturr	Price of foodsturf
(1)	(2)	(3)	(4)	(6)
All works other than howing	580	**Selsp powder	290 Kgs	Re.
		*Rios Mandis .	29 Kgs. 66 Kgs.	38-00 28-00
		**Green leaves	290 Kgs.	
Moeing	. 50	Janna rice	22 Kgs. 25 Mans	18:00
			Total	. B5-00

\*\*These tens cannot be converted to cash as they are not marketable commodities

Ketan Saber has two ones assert pore and one daughter. He femily conserv a foundation between 1 8 years. The amount observed consumption of creats where militate and cultise produced from the swinders at given in "Table 7.

# Table 7 Annual consumption of careals, etc.

	bens		Quantity in Kg.	Money value in Ry
Mendia			720	320
Green leaves			390.	(50 minket value)
Ghentle			120	60
Jenne			80	80
Kenduls		**	40	130
	Total		1,320	600

For the purpose of assessing the economic condition of Kirtan Sabar the average production of different clope for these years in Kitalian half is conditioned. The improve value of the clope is given in Table.

Table 8

Maney value of the crops grown to two acres of sunddens on Rediser. (Refer to Table 3)

	Сторы	Ihree		No of years taken into consideration for calculating	Average	-	Pnos	
		Put	Mone	avertge	Puti	htana		
	(1)	(2)	(3)	(4)	(8)	(8)	(7)	
							Rs. P	
1	Kerydu (a	6		2	3		196 00	
2	Jens	 6		8	1	14	77:00	
3	Kéngu	4		3		đĝ	7:00	
4	George	4	15	2		172	17:80	
5.	Ghantia	7		2	3	10	70'00	
6	Baragudi							
7	Jhudenge							
ß.	Mandle	 	66	2		7 1	27:50	
9	Turmerio						500.00	
							1.000	
					Total		884:00	

The enables of the production and consumption by his family of the crops grown in the evolution shows that there is a surplus of products worth Rs. 284.00.

Brootles things cultivation for finds faither downs on valenced cultivation in 2 cents of inspections and 60 colored in one wire of invasible opinion. If you have one consist of plade the colored in the colored in one of the colored in a section of a section of colored in the colored in a section of a colored in the col

Exprediture on use and dry entropiion is three gives of press longs

	Iterta	No. of abouters required	Rate of payment	Made of paymer	Amount paid
	(1)	(3)	(3)	(4)	(8)
١	Removal of heedings from saughted	9	ug of Rs 10 ner 20 mense of seeds (being the seed rate per acre of land).	Cash	Rs 30:00
2	Transplentation	75	Ansir reciptosili lebour)		
3	Weeping ,	45	An ser (reciprocal loboury		
4	Cutting grass	45	A n a + (reciprocal sabour)		
5	Resping paddy and carrying the paddy bundles to the thresh- ing floor	120	@ of 2 manus of paddy per day per head	Paddy	240 manas of paddy Rs. 300
B.	Threshing	150	(a) At the rate of 3 man as of peddy per day per head.	saoked	450 mana gl Paddy or Rs.553.
			(b) Cooked else at the rese of a marte of side per day (one meel at spook a side work-heam).		75 manas of 108 or 150 manas of paddy or Re 158.
7	Iron plough share			Czeh	Re. 10
8.	Prough bullocks		He has one pair of bullooks and two		Rs 100

Total expenses were in paddy 45 Put is (Rs. 1 126) and in cash Rs. 120

pairs of buffsoon with cit cost about Rs 1.000 and they fast for 10 years

The namen of expenditure on concultures non-rations in sayaddens and orain. Red. shows are stone by explosedly Apair's But to the ease of settled cultivation the mode of pay ment a of four types (1) payment in cash for the nurricus of top topic and supple ng and (3) payment in both paddy and food for works like threshing, and (4) reciprocity for works like trensolaritision and weeking. In the case of shift to cultivation begang is an accepton of feasing and drinking The arctions task of hoeing the swiddens in the accepture rays of the sun in the month of May is done by the learn of workers with Associated in accompanies of singled and risicing. The corresponding activity in pretione asserted with settled contration between the expenses incurred in both the types of cultivation in the case of shifting put hallor stilled powder mohive Sowers and enten leaves form major components of food provided to the work team. The money yelup of these Horry cannot on ascertained as they are not merketalsenmodines. They are collected from the the principal constituting of the diet of the Stock List of morely for payment to mean who co-polities to help one engines an ehitting cultivation in oppositional by its absence Labour is sought our hirsel for musual, help. In shift or collection and the mistress frances

bens to work an one-denother a swiddens. The concept of held blober or tabour charges on the context of shifting cultivations in shoppehot activity, and therefore provides a shoppehot activity, and therefore provides a symmetr in cesh fill blober a such type of cultivations is out of question. Food is somet to be term of question. Food is somet to be term of question. Food is somet to be term of all wrists whiching as shifting cultivation reasonables are considerable in contraction.

is the portest of cattled cultivation many significant changes, one noticed particularly in the mode of payesers and up the menon of organizing the concubus, previous The reciprocal help. Anex continues in carter sorteres of work auch as transplantation and weeding. The continuity of risdition is also marked in the practice of serving locates, food to the abourers it this time of threatings. Safe by sale he concept of wage is in vigue and neture of work. For example a sum of Re. 10. the east hade remitted mustby of sanding sebout charges for reaping the crops in the terraced fields are paid in peddy at the same rate (two manas of pagicly per day per head) which is commonly forciwed in the locality B. there are curtain tierns in which cash is: required exclusively for peyment. Plough burgoks and buffstors and one intouth abuses are purphased always on payment of cash The economics of settled controlling have hears in Dance measure monetized. Will: the fulfilment of which cosh is prorequisite have entiched the material culture of the Secret A first of such new rooms as required by

Table 10

S∈ No.	Nature of item	Quartity	Amount of money pa
,1	(2)	3	4
			Ha
1	Salt	60 Kps.	10
2	Keeqsun	12 Atres	20
3	Oil groundout		20
4	Soep		60
6	Test		26
6	Clathre		250
7	Travelling		60
6	Medicine		30
0	Resig scence		16
10	Battery for radio		đo.
,	Agricultural tools		10
2	Lend revenue		15
3	Plough bullocks		100
			osm 645

These new evenues of expenses have forced Kirtan Sabar to borrow money from focal money fenders and diversity his economic life. He has borrowed Rs. 800 00 at the rate of 25 passe par year per rupes on interest and took up duck section ducks. He sexued in the year under reviews e sum of Rs. 365-00 from the sale-property of eggs. He cleared his loan to the extent of Re. 500 on by peying 20 Putte of peddy (Re. 26-00 per Puls of peddy) to the money lander. As stated earlier he got 80 Pubs of peddy out of which he spert 66 Putis in agricultural works and on payment of loan. He used the beimos of 15 Pube (worth Rs 375:00) in food and other clamastic superses. The stones food of the Server se meddig grant mixed with rice, minor millers. pulses and green serves. They are not in the habit of buying rice for the corrose of cones. ription. Nor do they self peddy for masky. In such a situation the only sources of getting money for purposes of poying land revenue and febour charges and meeting the expenses of

certain daily necessities are local money landers and sale proceeds of the products of domestic

It is revealed from this case along that both belies to becarst but consultur goldina agriculture have each certain adventages and dissolventages. Kinten Sahar second the extracttages and endures the dissovantages of such the types of cultivation. Although the disadvantugge outweigh the edvanteges in the sees of the shifting swittenion he sticks to it with greatest tenscity. One reason against picting and abilities cultivation and changing over completely to terreced or settled agriculture is that the plain words are in short somethy and he cannot make he both endo most if he depends exclusively on the temsored quirivotion. Moreover the settled published in the terreped fields and plate fands will not give him those crops which constitute his stable food

#### CONCLUSION AND RECOMMENDATIONS

T is shifting cultivation is considered deves (3) For tative and disadvantageous. Some of the great a tr

- (r) It causes the springs to dry up.
   H, Causes soil eroson.
- an) Rums volupble timber
- At Causes very heavy floods, and at Causes without of the table and fields
- Based on these reasons, the government have banned shifting cultivation and imple

mented the policy of reservation and conservation of the fusies. In applie of indecessive propagands among the tribals agents the highest affects of stritting culoration, they show consideratio degeleties in sociality in this type of cultivarion for the following respons.—

1, This and in the bibble sees in in working by Action of the area of Gengine or 10 and 10

2) The tybers lock the necessary agricultural arguts such as plough and plough-bullocks, seeds and fertingers, 45c. to carry on cultivation, in the plans. We hout the recommany capabil and other invariantural which he associated with agriculture, it as not possible for the tribals to undertain cultivation in the claims. (3) For the trible people metry in not a discrete from the trible and carrier of the emission of control from the control deliver needs. It is due to the people people any and lake it is higher countries for that they are settled with the manage produce they get from the airling cultivation. Even though the produce from the airling cultivation we not activate to form the airling cultivation with our produce the produce of one of the larry of the airling cultivation of one cultivation for the produce of one of the larry other airlineative on which to disclose look suppose their accompanie condition.

(4) Most of the tribal people are indebted to the non-troat lunders, merchants and money harders. The important reasons for their indebtedness are (a) unproductive agriculture, (b) exponence (source) and initiate, (c) (a), (c) of proper marketing facilities for the forest products which they collect, and (d) the habit of displayments.

Being exceedingly instructive the tribal morphisms of a bit was set of deligible to give beet free discussions for give beet free discussions where contains a several view boundary. But were contained as years which was a series of the contained of the containe

The involve stocking by years and consolvent which there is necessary and the second of the second of the second of the second of the arms taken without any mention of the arms and the makes from any of sight veryign installs the debts thus keeping the infalls in debt in perge that the second of stifling collections. The whom applications of stifling collections. The second applications of stifling collections. The second applications where the second of the s

The shifting cultivation has another positions for consideration. Due to repeated cutting and burring of the foreignt, most of the hill tracts used for shifting cultivation have bocome herere. These hill slopus are not conductive to the growth of the Seet here. Large scale conversion of bush that size hill slopus are deserved areas does not help very much in supremeling the forest weeklds. In Sect, which happens as 8 and

mucht is that the felballs are deprived of their only means of living and are forced to load in life of powerly and many. What is stransformicaseny is that before banking the shifting cultivation. Sufficient access should be taken to provide the tribals, with good and and shifts -take them in colonies ostabilished in surable properties. The properties of the colonies of the properties of their properties.

- A pian has been prepared on the basis of recently discrepted tycknesses of swispastical area disensionlessed planning for the stressesses of shifting cutrishons in the usariagnoin of Keenhari district. The seconomorphisticals in the contact of compoling this shifting cutristion and bringing about desiverpriner of the Jusqui yillows.
- 1) The Justing may be approached and persuaded to stop econd year fairs cultivation in the hell-alloge. But they should be alrowed to continue the first year talls cultivation for some time, or come.
- It is recommended that the level executing will be priced as being a being a priced as being a priced as priced as priced as a priced as propriet as a priced as propriet as propriet as propriet as a priced as propriet as a priced as a
- (2) One the valley bottom is developed or previously profession for the last parameters of the train of the previously profession of the train of stope intelligible browns in 2 per user and 20 per cent for coming fire years. After the proficial blue casegory of , and if or tails cost validio miny come down to between 8 and 12 per part cent stopes. At the initial single Tangling years of the control of the previously previously wystern of bottcutters about to show in the previously of the previously in the member of John After the sourcing section in the member of John After the sourcing section in the member of John After the sourcing section.

encouraged to perf mentap, tetafoliu, assigns and bitment tests and before the set of the mostoon so that such those well grow tests as the second of the mostoon so that such those well grow tests are the second of an experiment of an experiment of an experiment of an experiment of a such tests toget of the same tents are their they do not the second of the second

(3) in the second stage, say, after five value, when all land between 12 and 20 per cent land, when all land between 12 and 20 per cent land, with the second land, and the secon

- A "code! to control seconds view tassa cuthanon alternate attas for premierer cultivation should be developed similaritements." These sities are susmitted in flat view between each written garatite supple areas having 3 to 8 per cert supple. They valley between should be ecolumed environmental areas who may be the sitias. Those larment who are should be for our land it, without product and per sitiation of the situation of our aim and it, without and although pelling all the production and although pelling all the production and although pelling all the policy and pelling all the pelling all pelling all the pelling all pelling all the pelling all pelling
- (5) Terrebed tridde elso can be developed in the lend having 3 to 8 per cent slope. The greatest landings in else regard is the heavy financial envestment. Even if the linconom problem is solved by providing hundred per can aubuilty to the tribatal, the servoring line minother.

problem. It is a time consultring process a bibbli cannot wrist for rive three years until the first process of the process of

(6) Land having above 20 per sent slope stay be utilised for development of forests and for pasturage.

17. The tribals about the provided with meazer world gyrs to problem the notest from meazer world gyrs to problem the notest from the despiration of world animal. Otherwise all all allegans is integrating agricultural practices at incommandal above will be fastle. It may be seen that the properties of the problem of the problem of the problem of the problem. It is not the problem of the pro

8 Cultivation of Hill epips infound be borrived forthware fleatings in Equation 19 acress dependention of forthware fleatings are caused for the set of forthware fleatings and society for the set of forthware fleatings will be compensated with better and in the Hall allogs and self-protect their may not result the proposal of developing reserved. Speaks at the Period Taris which should be there to be the Hall flow and with the fortest decomment and the tibets should be solved as the process from the very

beginning so that they would take interest in

protecting 1
conduction of engineering registration of conduction of engineering registration and softening registration and softening registration and softening registration and registration of the softening registration of conduction of the softening registration of conduction of the softening registration of conduction of the softening registration of the softe

the development of shifting outlyetter in a strentilic manner. In the Sapra pountry, the cultivation lie beyond 20° slope. In many piaces terming had Started even from the summit of the hits but generally it is confined the bed of the hill stepping. The Sacras in many villages, have already adopted improved sone,/tural practices such as application of fartilizer and twheel seads. Transplantation of and the water management and contour bunding and serracing are most skillfur. The environmental conditions are so favourable and the neonte are so much femiliar with the emproved agricultural practical that only timely technological assistance and supply of inputs an excuted ournities will surely accelerate economic progress and development in the

	Appronger size of the population	6	8,000	2,000	15,000	12,000	22,000	0.000	36 000	27,000	22 000	41.000	25,000	20,000	11 600	12 000	5 000	4 000	20,000	5,000	11 000
isa (Sub Plan Area)	Tubes practising shifting rules on a second of the second	(9)	Ho Banda	14 Distative	Agril	Kgya	Koya	KOFB	Khond	Noond	Khand	Khavd	Oscord Pares	Kissod	Khond	Ahard	Gadaba	Qadaha	Lanys Saeca	huse Khand & Khand	Kutha Khand
Affing Cubrat	Total stes on 5q. f,m	[9]	373 88	80.104	1 052.16	507.88	819.20	66837	324.28	380-29	41118	1 502 21	878 98	286.20	532 48	00 00	466-21	617.99	468 97	27355	5,12-48
S SW																					
ans orders practiti	Block	(4)	Khaupur	Kudumalgama	Kanmela	Pado	Korhando	Multanger	Royagada	Kolestra	Колудиниранда	Addigui	Dasarthagur	Lavenupus	Narayac palna	Bandhuggon	Similarda	Pathange	Gunteper	Euderi I	G. ribre II
4000			-	-	0	-	0	0	-	N	20	÷	-	0	-5	4	0	(0)	•	2	0
Alea affected by Shifting Cuthveann an union practicing Shifting Pultration (Sub Plan Area)	Substration	6	1 Melkangin						2 Brytonda				3. Korzestf						1 Grampar		
100.00																					
4	District	(3)																			
			Karsout																		
	2	_																			



Approximate size of the population	0	16,000	14,000	29.000	13,000	16,000	12,000	15,000	13,000	11,000	13,000	17,000	26,000	195.000
							;		,			;		
précising sh cultivation	€													Total
Tibes 0		Khend	Da	8	8	8	og.	Do	Do.	80	Do	Do.	å	
Total age or Tribes practising shilting Sq. Km. cultivation	0	640:00 Szend	43084	1,211.00	1.638-40	303-20	8414	51514	311-20	1 (54 56	472.40	827.36	114696	
			,											
Block	9	Bathgudo	Musglin	Darngbad	d Kotybeh	5 Tikahali	G. Udmyagiti	7 Railue	8. Chulopold	1 Tursidbandh	2 Phubban	3. (Dajmjada	4. Phengs	
		-	61	9	40	0	ø	-	ď	-	C4	ef	4	
Substresson	Ē	1 Bullguda	2 Neepen							2 IOsonámal				
District	8	Phulibane												
No.	£	ě.												



# Jhirpani—A tribal village in the hinterland of Rourkela Industrial Complex

SAILABALA DEVI

#### Introduction

According to the 1971 Census, tribes comprise 23-11 per cent of the total population of Desse. 13:35 per cent of the total tribel population of the country are found in Drose stone Table 1 cayes the Statewise scheduled their population of the country Distribution of Scheduled Tribes (1971Census)

Table 1

Stepe	Papuration total in 900'	Schadured Tribe population	Percensage of Scheduled Tribe to for all top riseon
(1)	(2)	3)	(4)
Andhra Pradosh	 43,503	1,057.657	3/61
Assam	 14.058	1,819,947	12:83
Bihar	88,363	4.932.787	a-76
Bujner	26,687	3,784,422	13:88
Haryona	10,037		
Hymychal Pradmh	3,460	141,810	4:09
Jenny & Keehmir	 4.617		
Kerace	21,347	289,358	1.28
Madhya Pradaeh	41 884	8.387,403	20-13

	State		Population Jotal in 000	Scheduled Tribe population	Percentage of Scheduled Tribe to total population
	$t_{\rm d}$		2)	3)	4
Muhametra			80,412	2.964.248	6-88
Manipur			1,073	334,400	3.12
Morat Brains			1,012	814,230	8-04
Mysic is			29,200	231,288	9.78
Negitard			515	457 002	88-68
Onena			21,046	5.071,887	23 12
Punjab			15,000		
Repairthen			28,768	3.1.25.108	12:13
Γαπίτισου			41,100	311,616	0.76
Litter Fradeeh			89,541	190,696	2:38
Yrlpuna	'	* *	1,056	460,644	2-86
West Bangal			44,212	2,632,900	8-73
India			647,860	30.015.162	0.04

Source—Census of India, 1971

Among the districts of Onsia, Sundarger nocurates the timel ulass in hams of precentage of this disposition. The second of the disposition of \$50.00 which constitutes \$3.2 are over all the second of the disposition of \$50.00 which constitutes \$3.2 are over all the second of the disposition of \$50.00 which constitutes \$3.2 are over all the second of \$50.00 which constitutes \$3.2 are over all the second of \$50.00 which constitutes \$3.2 are over all the second of \$50.00 which constitutes \$3.2 are over all the second of \$50.00 which constitutes \$3.2 are over all the second of \$50.00 which constitutes \$3.00 which constitu

# Table 2

Name of the dis	tesi, t	Total population of the district	Population of schoduled mibe in the district	Percencage of scheduled tribe appulsions so total population of the dated
(1)		(2)	(9)	(4)
Sembelpur		1,814,868	819,046	20:1
Sundargarh.		1,030,758	850,401	63-3
Keon/helr		255,514	448,676	40-9
Mayurbhoni		1,434,200	839-835	88-9

Name of the district		Total population of the district	Population of scheduled tribs in the district	Percentage of Sche dules tribe peguration of total population of the district	
(1)-		(2)	(3)	(4)	
Balasore		1 830,504	129.192	7.0	
Duttsek		3,827,678	\$10,748	28	
Dhenkanar		1 293 914	188,999	129	
Phulber		621,675	250 606	403	
Balangir		1,283,867	249,131	19-7	
Kasahand		163 869	340 541	28.2	
Koraput		2 043 281	1 151 231	96.3	
Gzeparr		2 293 898	229 945	9.9	
PL:		2 340 889	86,591	36	
Orepas		21,944,616	5,671,937	23-1	

Source "Addres" July & October 1972...Vol. XIV.....1972.73 Nos. 2 fr 3 - Yables 1 8, Page 16

in recent veges both the Center and the States have spent a huge amount of money on

different programmes of development of the welfare of the bedtward population rise Sebeduled. Tables and Scheduled Caster. Manny surveys flave been conducted at the material and regional values to client his planness to fermidise product of accounted development of the gooder extraord of the country.

In this caster or personnel his been minder to establish the conformal condition of the finishes at the caster or personnel his beautiful product of the conformal condition of the finishes at the caster or personnel his beautiful product of the conformal condition of the finishes at the caster or personnel his beautiful product of the conformal condition of the finishes at the caster of the conformal conditions are considered to the conformal conditions.

compressor to the non-either inhabiting this peoplery of the Blouskes Steel Plant in the distinct of \$underginh with this help of a case study conducted in the Jhiepani visings.

### About the Village

The preson shabosins of haran waining in 13 shall engine in the words of the resolution Stee Plane. They work squared the water of the Rockea Stee Plane they work is said to the Rockea Stee Plane and were resetted an accomplished the North and Skillight of the Steephen Skillight of the Steephen Skillight of the Steephen Skillight of the Skillig

#### Methodology

The lotte inventor of hip letholds in the village was 783 and the obset population is confining to 1973 centuril was 3.842. For line purpose of the prepose that a semple of 50 households efficient at condensation before the first vipolities of substitution of the mount of all forces of the first vipolities are confuction of the mount of Condens 1976 3.3.

#### Population Characteristi

The total population of the survivied households was 340 out of which 278 or 81.78 processor were interested to 18.24 per cent of the population water interested to 18.24 per cent of the population water non-tidities.

The svarage size of the household of the wilage based on the sampled households was 7. Table No. 3 mins a complete break up of households according to size

Table 3

Distribution of households Jr. no. 1, according to size

	Number of t	nouse/rotels	
Sure of the	_ ^		Yptat
househord	Scheduled *-Ne	Nor inte	
6	11 (22:00)	11 (22:00)	22 44 00)
4	22 (44 00)	8 (1200)	28 (56-00)
Total	33 (66 00)	17 (34:00)	50 (100:00)
	distance in the powerbox	an enteres on more	

The disables of Native 3 revision that 22 per aim infinite struct consensation of both incluses and non-relate formats consisted members of all langing from time the facilities and per centred and 25 per centred non-steal families, compresed into man 3 members. The salf subjected that there was a significant difference between the size of the mibble and non-tribulifications.

Table 4

Age—Sexinse distribution: In definite and non-nentral of January

Are-Grava			Males				Fernale		
Age-draup		rners	Sor	680000		ame.		earners	9104
	Ť	N. T.	T.	N. T	T	N.T	τ	N. }	
(1)	(2)	(3)	(4)	(6)	(G)	(7)	(8)	(9)	
Below 15			68 (20:00)				64 (18 82)	(2:35)	148
15-24	18		(5 BB)	. 8	(0:59		10 76	1 27	83 24 42
25—34	4.411	17	0 88)	0.29	(0.29)	0.59	2 65	118	12 06)
35 44	470	(0.68)			0.59			0.68	30 8/82)
45 -54	1.48	10:59)			0591		2.94	0-291	20 5 89 k
55-60	(1.18)	(0-88)					(0-59)	(0:59)	(3:24)
51 & above	0.89				0.29		0.59	(0.28)	2 06;
Total	46		91	13	2 351	10 59	133	.7:36)	(100:00)

 This provide of Table 4 reduces (A 435) for every of this operation even before the even object to 200 per our shoot. If you not sign 40 net is 40 net of 156 for even of the three conductors of the 56 for even of the three productors of the 56 for even of the table productors were almost which the female results and the productor of the female reduced to the female reduce

information were also posisted regarding 1% advolves absurement of the substantiants of the colorer. These view 7 % solves in the colorer street, for colorer principles of the property of the 1% of the solves principles o

Distribution of the population sociating in their educations artificians

		Mass		Fe	Tetal	
Level of educi	stion	Tribs	Non tribe	Trajeo	Non-Yue	10181
(1)		(2)	(8)	(4)	(6)	(6;
sturate		48 (13 53)	(2:98)	(28.76)	(2:06)	161 (44-41)
L P and ber	mr	36 (10:28)	13 (3:83)	(2:94)	10 (2:84)	(20-00)
D. F.		17 (6:00)	(0·28)	(2:84)	(2:00)	38 (10:28)
з м		13 (3-83)	13 (3.83)	(2.95)	(118)	31 (11.49)
Matos		20 (8-88)	(0.86)	17 (8:00)	(0.86)	412:46
A Sc.					44	
B A/B.Sc.		3 (0-88)				(0-88
Post Graduati	,					
Technical		(0:29)	17		**	(0.29
Yotal		115	37 (10 89)	40 29)	(9:12)	,100:00

(Figures in the parentheres indicate precentage)

Physicians of Table 5 seals also do of the total population is veryld in the Julipe 44 at policy and years. Black of also 40 do is cert of the titler and 4.2 by a cert also shared a recommendation of the period of the period

#### Occuranational Pastern

As the visign were a resolve and colony. Profit hold in a approximated data in the voltage, we is empressed of the Roudsian State Plant. The colonial colonial visit is reported to the Roudsian State Plant. The major colonial visit is reported to the Roudsian State Plant. The colonial colonial visit is reported to the Roudsian Plant. The colonial visit is reported to the reported to the square plant. The details of cooperations parameter the squareholds have been controlled.

Table 6
Distribution of households according to their main occupation

Occupations' Pattern		Number of	Total	
Occupations Passarr		Twee	Nor mbo	10681
(1)		(2)	(8)	(4.
Agriculture		(2:00)		(2:00)
Labour		(8-00)	(8:00)	(18-00)
Service		(52:00)	(22 00)	(74-00)
Trade	**	(2:00)	(4:00)	(6-00)
Profession	,	(2:00)		(2:00)
Total		(66-00)	(34:00)	80 (100:00)

#### Figures in the perentheses indicate percentage

#### Income of the households

pro ext. of norms is considered to be the best indicate of economic websing of the proce-the last of two economic disenteed housewhere. It is illustrate the year 1975 was about 50 million upwase. Hence the isomratiod storage with up per explor income of the village was \$6.5 YOSO ON which was highly better fine or cooler income of loss an 1971 27 ill. \$11.5 th according to the amount of loss and 1971 27 ill. \$15.5 th according to the amount of loss and 1971 27 ill. \$15.5 th according to the amount of loss and the according to the amount of loss and the last loss process and the contraction of loss and the amount of loss and the last loss and lo

Tabra 7

Table 1

Dispripution of Households in Jhirpani according to the annual per capita income in 1975.76

evel of snoome	Number of	Tele		
(in Rs.)	Tribal	Non-tribe	1600	
(1)	(2)	(3)	4	
Below 100				
100-300	(9:00)		8 00	
301 -600	(4-00)	(8:00)	13:00	
501—700		(8 00)	78:00)	
701-900	7 (14-00)	(4:00)	18 00)	
901 and above	21 (42:00)	(10-00)	29 56 00	
Total	(06-00)	17 (34:00)	(100:00	

(Figures in the parentheses indicate percentage

The total supplication in the surveyed households during 1975 76 in the inTogol wild about 4.7 milition rupoes. The stimutoid ancaption per capital explanational during the year was roughly Rs 887 in Table 8 the distribution of expenditure of the Possibloids 1. Prepara is given Table 8.

Distribution of rependiture on delle and ileas of the hauseholds in Jhirpani

stems of	Leas then 10 per cent	10 30	30—50	6070	70 10	10 00	
екриплин	T H-T	TNT	TRT	$\widehat{\tau}_{-NT}$	7 N T	√ NT	
			2	4 4	22 11	5 2	

28

Medicine 20 3
Smolang etc. 30 1 10
Alcohol . 38 3
Ceremany . 30 9 5

N T Non-tabe

The same of expanditure were questived under 7 broad desegoing such as food placture, aducation medicine, amount, Acobor and ceremony. The annivers of Table 8 indicates that out of 50 households 33. households (22 tribs) households and 11 non-tribal households, seem 70, 90 of the income on food 5 tribst families and 2 non-babit families spent their entire income only on food. From the parties of expenditure in was crear that smoking, etc. and teg was a recessary, term of expanditum for expose all, the households 30 tribs, families and one non-tribul family, but spane sess than 10 per name of their income on smoking white 10 tribs. Farming and 5, non-tribal families apart 10 30 per cent of their income on amplitud Au-php) was also a very extends. I down of expand turn of the visingle timong tribes. 36 tribe into selecteds and 3 into select residenced hard see assemus 10 per cell of their income on arcohol. Commones were not nephotol both by the class and not refer of the citiese. 30 riber households and 9, see total liquisaholds are ed. stat tight 10 per cent of their shooms on commonly white 5 tribes and 3 non-settle translated spent 10 30 per cent of their income on lecendores. As the scheduled thilbes are provided with free advisition, this amount spant on education was small. The H.S. E. amproyees, were provided with free mediune and free tragoners in the uper General Hospites. Routkers Among the earnpie households 20 sible and 3 non-albeit households span lies than 10 ps. cant of their income on

Move the list of 30th told any first historials wound obtain always (a) the constantbord if the review of the Tall and t

Securps of the Mouseholds A the villege Johnson (1978)

( Ri )		Everage Inc	teme up fo	average feature of Re 500 00 and above		
		Tribu	Non edite	Tribe	Non tribo	
(1)		(2)	(3)	(4)	(8)	
Berow 100		(21.41)	(14/28)			
100-300		2				
300500		(14-26) 1 (7-18)	(7:15)			
B00700		(7:18)	(7:18)	(19-35)	(1000)	
700-900		(7-15)	**	(8:67)	(.000)	
900 and above		(14:28)		14 (46-87)	(23-33)	
Total		12 (71·42)	4 (28-88)	22 (66-67)	(33-33)	

(Figures a the perembeses indicate percentage;

Table 9 shows that any 2 table households whose several average incrime as a significant and a solid could seek about 500 in this year. The savings of solid could seek about 500 in this year. The savings of solid could not consider the savings of solid not consider the savings of this savings of the savings of this savings of the savings of this savings of the savings o

Loan of the households in the village Jhepen

Amount of lost		promust avo	trouseholds of rega income i. 500:00	Number of households of enrise average income of Rs 500 and above		
		Tibe	Non tribe	Ynibo	Non 17be	
(1)		(2)	(8)	(4)	(5)	
Barow 100		4 (20-00)	3 (15:00)	(20-50)		
100-300	11	(10:00)	(10-00)		(14-00	
300600		(16:00)	(8-00)	(20-50)	::	
800700		(10-00)		(14-28)	(14:28	
700600	1. 4	(6-00)	(8-00)			
god and above		(5:00)				
Total	4.0	98	(35.00)	771.00	12850	

Figures in the patentheses indicated percentage

Div. 27 inspatibility number data to make the assention of construction of house and exemption. The broughted the great between the time property having among average increases and the state of the st

On the whole this tribes and the non-ribbs after were better off and as the service in the Seet Plant, was the presery secros of evel-load in last certainly combitate for in excensive envelopment of the people of a freed that further adjustment of the project to the orders of discipline will being more improvement in mine economics fire that what was the case of the time of shades.

# Koraput—A Tribal Linguistic Area

К МАНАРАТВА

863975

(830 4)

1 he sput located between 29° 7% and 17" 4"8 N latitudes and 80" 24 E and 84" 2F longstudes is bounded by Andrea Pradesh on the so-th mi, east and by Madiya Predicts on the north and west. The district has an area of 9318.95 square miles which is mostly covered with rolling mountains and dense forests. According to 1961 Census it has a total population of 14.98,271 personal

Konsput is the land of the aboriginary. There casts communities which constitute respectively district on addition to this, but of the rest bulk of popr ation nearly 10% come under the different o Tutogich proups, such sa, A-yan, Dravidian and Austic, and speak a large variety It was been early by a c . . . by R C S Benthat. The automotive his district form a variance, Babin Own of marker of Koraeus 1945 a free sparsely populated smart are spoken. to people fiving crede a village mosck altogether th' orant speeches A list of the regularing roughly of the area is given

1 Cove 90878 2 Doses 3 Rhane

S. Lude

(B. Dravidian Group, 7 Telas

9 Kondh/Kool

11 Prepa 13. Gorida

14 Patri (C) Munda Group.

> 15 Garltin Guston 31 791 16 Paranga Gee, n 6 702 17 Bonds, Remo 4,677

18. Dideyl/Gas 7 1.978) 19 Sacra Sora (55.41s no dete

Figures parenthesis indicate number of speakers, 1961 Census)

Lodhe 18,629



The the Anne distens though original form our (or three ) distens the season of the three ) different season of the control of

In the Demokter good of Impulgate leaving according as at a roll, a forthe Impulgative leaving the program of look but many. Heratokas, such as Projugative look but many. Heratokas, such as Projugative look according to the look as insended to Condinos all a diseased but as a member of Condinos all adjusted but as a member of the expologroup and has such month shiftly with Accord language or colorer self-and to Roman with the program of the supplier according to the robbs of the language according to their both names of the language according to the the language accordi

This inspirings of this Munda Sensis are beneaty divided into their bringhes—Hooth Munda, South Munda and Cente Munda South Munda and Cente Munda Cente Munda is select to South Munda con the team of the control of th

3 The Link knopurps arong the illiguistic groups in the precider Enginesis. stration in Kongast the reseasity of a continues speech for lines community social transections is the with DESIA. It is the second neural language of the roin-Aryan tribus with one by birth sillinosefs. The entire stoked populate of Kosaput Identify themselves as ( Dasia' which means etymologically 'restye' indigenous' storiginal' and therefore, their common language is denominated as 'Desia' or the spisich of the resion.

Deals is based on an old drawn snearly which was probably quarted in this region in the form of Drity Vibbase According to Markedeva, the Odroivibiness is a moved dislect which comes off by adding local words of the Order country and of Successor Dasia has all throse characterotics as it has offinger with Challenach, which thorough Exetum Winds is descended from Saurasons and with the tribal languages of the Dravidion and Munda families which are indicated in general as Baban. Such an old form of the language could be retained is no wonder because of its place contact with nibel languages and long lapidition from the Influence of modern Oilvs. However, Deale atterned the easture of "Lingu france" from the middle of the 18th pertury A.D. when the Surveyamely kings of Orless established Silvernals Dunner the cest 500 years it has retained that position and pherenter by serving as the link sequence in the multiinquisi tribel anciety of Knessut

4 Koraput es a Unguittic sess --- Koraput heir being a multifemilial and multidisfectar district with Desia as the opposition link among various inquistic groups is a suitable field for comparative studies in Ideal point of study as a linguistic area. In his two most inspiring papers (India es a inguistic area, pariguage, 32, 1956 and Oneyidian and Indo-Arven The Indian linguistic tree, Berkely) has proved to some extent how in India languages beronging to titree different fartilies show certain traits in common which are found not to belong to the other members of one of the families. However, he has to concerniste mostly on gases of diffusion between Dravidian and ndo Arver oner due to lack of adequate data on Munds, particularly South Number et that time. It seems, within indis. Konsour provides on ideal situation for further sturies n this direction as here one finds of convergence of languages and dissects belonguon to the three families, (3) diffusion of lingui-850 traits across canadic boundaries and (A) hybridization of languages thus to extensive bilinguation. A study of Deats gives ample evidences of mutual compasing borrowing emong genetic lenguages of the three famules and development of certain common traits in these tanguages. As an example in may be cited that in most of the Dravidian and Indo Aryan languages ocho-words are dervor up changing the consonant (s) of the base words, whereas in almost all the tribal enguages of Koregut Including Desig. It is done by changing the yowels only . It seems thre process of ecino formation is essonable a Munda fasture specifically a characteratic

feeture of the Kareput Munda empusors.

and that has been diffused into all feature the bibel dislocts applies in that area, other directly or through Dasia

The language of Exists, I was stated on the seal of th

#### 5 Ethiography

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# The Onge of Little Andaman— Their Material Culture

SUDHENDU CHANDA Research Worker

#### Abstract

An attempt fine beer made here to present on measure of the observations recorded on the effects, carbon of the Orage of Letter for the control of the contr

#### etroduction

The ordina related of the Orige is United Andreas, the schedulensities shade of the Andreas procus, strated between \$1720 and and the Andreas procus, strated between \$1720 and the Andreas procus strated between \$1720 and the Andreas and Repose and the Orige and Child Andreas and Repose is the Boy of OHAL Andreas and Repose is the Boy of OHAL Andreas and Repose is the Boy of OHAL Andreas and as short \$50 minus from Cer Notaber 11 and 12 and

of southern half of the island. Movements are very difficult in the jungle, there being no roads or paths

The lotal population of the Orge sysmesated in 1981 Centus was 129 (male 59 and female 70)

## Natural Environment and Resources

The Ongs depend on the forest for wild roots, fruits and honey and wild animals particularly out which form their staple food. They shoot figh from the see by means of bow and grown and supplement their diet generally select on open spot on the cosetal side of the ese as well as a the interfer of the forest cose, for their settlement. These preces are accreatible to a tropical vegets flon, as well as marine, supplies for their supponnee. The forests inhabited by the Once augoost games of wide verlety such re pige, door have, rate and birds. Being ocated in the tropical region the Island of the Organ & charmstarized by a harmy sainfall search of games. Naturally, they are found to move around the constel belt and heat their delily requirements from the ass. The natural environment and the forest and see Miscurces have moulded to a greet extent their material culture, i.e. the size of hut. twin food habit, social organisation and plan their morngial life.

The Onge are a corefree people having very few and simple requirements, most of which are myst from the forest or the sea. They do not believe to unnecessary accurrentation of actions and sex specified with meeting their requirements as and whan

Their articles of material culture viz. denote, utentile, ornaments and bows and enows are different from those of the great Andanters. The women weer a tasset and the men put on a loin cloth.

They live in large circular be-bine type of huts which are correson all over the inlead The huts each having a name of its own wary in size. In each hut these to four families be and lead a communal life. Weaden platforms are taised in the hot en which the families, reason.

Thoy cook their food near the woodenplatforms. Only on fauther occasions them as consumming-cooking which is done in the central part of the hist. Do much considerathe Onge dence in the central part of the hist. This Onge women pice bein to children in thisse hatt. They many in the host and are buried under the wooden pleatforms allow

The following few items covering their

#### Dwell nos

Thatching is very crefty and is made of sectingular thatches of care layous own lapping such other on sides. These thatches are made by putting the middle of care leaves adjoined to one another and folios them filmly. Such thatching is shroot least pool or and least for one and the water.

Along the periphery of the but, are ready the family members or platforms which are wearned to the second of the s

each about 3 ft X 4 ft, to 4 ft

The community lists are mostly intuited close to this sea colors and the entrance faces every finance for the forest were not in use and mostly mission. The community function of the Onge see not always view amounts. There is greenessly no provision for ventilation and it is if that, and damp examin. Selection of the above on the

(a) if Coale—Those are temporary lain to stellurs built by the Origin when in basets or on busting and fault collecting systetions. It is felt that now-a-days this Origin poster to stay in those temporary shothes except during the many special. Site selection is not always good soci sometimes these temporary but sees noticed way may amaginess and other unbasety.

The continuotion is ordinary lean-to type with misoclaneous hard-wood props, case fame and thatching of Pendanus. Cenns or care faeves. Pandanus feeves are put with thair sides oversitationing sech other and look lits is consigned after. Family machans are mode is consigned wheel.

#### Kánosa

The Onge dug-out cence which is serie as the Nicobari outsiger cance, is a peculiar design in itself. Its men body is made from Xvalvior (Fathermeies Modifices) or Tolkey Christian sophyshim). It is about § ench thick and 1 ft.

#### THE ONGE OF

to 13 ft open on the upper surface whereas the Nicoberi canno is much thicker and stoute and a much wider. Further unlike the Strobes conce, it has a prove at both ends where the soscuriny' can sit end from where turties are

The buoy is made of Tecromales nucliflors or Steroulie companulate and is attached to the main body with the help of 2 or 3 cross places of hardwood poles. The mode of smachment a not so perfect as that of the Nicoberi canos

The Paddles (Tev) are made of 7/borulo Beregs, Jugane, Kochstwags all macellaneous hardwoods. A neutilus shell (Naretahwa) or a depoil or Balti is kept in the cence for throwing

#### Though some of the Ongerner have started

using dicthes given to them as presents, most of the other made them still prefer to use the strip of cloth. Lancott-Hine'll tucked in a throad tied sound the yearst The women followers in front a transic of

fibre (Tomonveven) made of young cane leaves t is fied ground the waist by thread received from Port Blair or made locally from the bark of Mitureus Infector Semetimes the back of the tree as such as used for the purposes. They do not wear any cloth, but are sometimes seen using fungls and brouses received as offer. A ating of boods or ocally mediative shells. (Chenedair) is sometimes worm must the

#### Stockets and Conta ners

Apprt from the metal cana, muga, etc., which they receive as othe, the containers orivinely used by the Cope are 

besited which are of various sizes has invertably a pointed bottom in the made entirety of came Téals is used for storing general provisions. Resource roots and tubers coverted from the forest and left-overs of pork. The basket is hung at the back from the forehead with the help of a belt made of Miblistus silleseus beek.

Payanalis shaedir wood. The tree is felled and made into small billets pocording to the required size of the bucket. After seasoning the wood for sometime, the billets are made hollow from one and with the help of a shero piece of eron serving as side, the other and being left untouched to serve as bottom. The thickness of the bucket on the sides is consensy about 1/4 inch to 1/3 Inch and at the bottom should I linch. A lever of bee-wax is put at the bottom to make it leak proof. The bucket is, then had in strape of solit came or tree back. It is hung

at the back in a similar manner as "Taule" and is used only for one purpose, viz. collection and (c) Bamboo Containers-Pieces of drifted glant bemboo (Sembuse pigentie) are found in the poset of Little Andamsn (Specially on east cosst) The Onge make containers for storing water etc., out of one internode keeping a mode at one and intest and planting through

(d) Drinking Jowis-Agent from eluminium and engine mugs received as pilts, the Doce tise Nautiles she is (Naretzowe) for this purpose and also for housing water from the streams and bolling out write from the parcess while trave-

(a) Emply bottles turn etc ere often astyroad (a) Bost-The Onge bow (Asy) is a long

#### Winspons and Tools

curved structure and is usually flat when unstrung. It is made of a tough wood having high bending and shock relating properties They use "Tokolbers" wood for the purpose, which is Probably) Separce attitotion the same tree which was used by Great Andangress tribes for meking bows. Sometimes depositive work is done at both ends of the bow by Dendroblum bark. The bow strings are made of fibre obsessed from serial roots of Figure species or stem of Appdeadon penipulature

(b., Amono-(7) Karange (for shooting righ)-This type of prove has a long pointed arm head sied to the body of the troop with the (ii) Chanokwa and Zene (for shooting pig)— These snows have isnosolate inon fised and whereas Chanokwa bead is detechable, Tame is a perminent findam.

Multiple headed arrows for shooting fish and binds are neither made not used by the Orego. The body of the arrow is made of tisemboo. Allowages (iterative and a few inleadismeaus hardwoods. The arrow heads are made of irea alloyed from the sea or distributed lion. Port

(e) Turtle haspoors and fereline (spars)— Jevalins are made of Kolòn' (unidentified) and turtle harpoors of Afiltosops (Sparalls, Each have lancoolste iron heads but the head of

#### sharpsning their tools.

Plahing Equipments

Apart from shooting fish wifts the arrows, the
Ongs also critch fish with the help of look
and line obtained from Port Bleir. The women
make kend-nate for centring fish with the help
of these obtained from Port Bleir. These
of these obtained from Port Bleir.

#### Garables Since

The Onge (Men, women and children) are find of snoking They use creb's claw as smoking pipe. Screetimas worden pipes are also made by the Onge.

#### Torohes

Spindles of drup resin are wrapped in young cane leaves and carried so torthes for turtle hurring and night journeys".

#### Tropies

Turble heads are hung in the huls as traples. The Orga have great strachment to the days, When a day cles, its skull is kept as a torphy in the hut. Sometimes these skulls are painted in yethous potterns.

#### Donatonk

The Ongs do not rear pigs or fowf as the Nichtweis do: The only Evestock possessed by their sex the dogs which, it is believed, were introduced by Burmers poschers. Most of the dogs are rickety due to reallustricion, exiting, as they do, the left once of their resetter.

#### Food Habit

The Organ tree expendably humens and food gathless. Forest is their home and humbly ground. This results find one size of a non-vegationist data propiesement by some additionable of the size of the

#### NON-VEGETARIAN ITEMS

(1) Pip (Kunl)-Pig is the steple food of the Ongo. This pointed seems to be Sug-andoniananals. the common species of Andeman pig. The forest seems to habour quite a force population of pips, those in the interior below the coast. The Ongs hunt them with the help of dogs. The pigs are shot by a special type of arrow (Charohwa and Tana) having a blade at singly or in groups followed by a peck of dogs. It is generally believed that the dogs were intro-However, the dogs have acclimated and proved very useful to the Orge in pig hunting. After the pig is killed, the stomesh to cut open and stuffed with green larves and brought to the carry. The hooves of the entired are out off. The corpse is lightly roasted over figmes to remove the hair, and then out to please The meat is prepared for eating in two ways:

(a) By rossing—The meat is packed confully in green leaves of Arthourpes or any other broad leaves and is placed on a tryer of stones. More leaves are heaped up and the whole mass is convend with dir twice, leaves and

#### THE ONGE OF

combustible mainter. The furnise there sets fiss to the whole thing and a little later cover everything with earth or eard. The meant is thus reacted by gettle fire for a few hours which the meet is unearthed and eaten as such. No salt or conditionests are added.

(b) By bolling—The cheat is put in dephchies and other tim vessals (obtained from Port Bistr) and sufficient quantity of water is added. The contents are then bolded over open fire and exten when ready. This process enables the Crays to experts out far from the meet, which they store up in bottles (calenged from reseables) for future use sed when no other item of food is ready; resident.

The rossted meet is often dried and saved for future use in periods of scarcity. It develops a striving small but the Onge do not seem to

# (2) Turtle (Narelange) Turtles are 'harpooned mostly at night with

the artist of specifiques. They go out to the as a hashress of two is had displain which the control of the control of the control of the other press into the control of the control of the other press into one weeks, careful hadd of the horse the control of the control of the Not all tower the air of the herocompa, and serviced as topics. Two vessiting of the third serviced as topics. Two vessiting of the college serviced as topics. Two vessitings of the college serviced as topics. Two vessitings of the college of the restorated for the shall go of the college serviced as topics. Two vessitings of the college serviced as topics, and the college for the restorated for the shall go of the college serviced as topics.

The eggs of the surflee ere also dug out from the seashore and easen after boiling.

#### (3) Fish (Chops)

A large variety of fish are found in the eas. The enabler ones are cought with hand-note and the bigger ones are short by arrown. Other, the caph is buried in sand on the coast and the hanter goes in pursuin of other game, only to recover it lote. Usually they carry it in the cano basiloss. The beauting of the lish is generally not entity. Hair is cooled before entiting.

The types of Bah commonly found in the sagnest the Island are Surgesi, Tarol, Farca, Early,

Koral, Post, Bhotal, Kokari, Chande, Mingel-Merce, Khoori, Dandax, Sangri. Thosa, fishare easen by the Onge where as the ray fish, Shark, Jolly fish, which are also found plentifully in the sea are not octor.

#### ART BUT IN

The bivatve cysters found in mangrove stess are collected by the Onge and the soft meet is osten with reliable bolding. The bivatve shells are always found near the huts of the Onge. The mound of bivatve shells in a place is indicative of earlier residence of the Onge is

The dark brown variety of crab is easen with relief. The meat is removed from the sholl which is though dway.

#### 6) Prawna

Fresh water prawns are available in some streams. They are esten after boiling. The Once do not shoot birds, which are

found plentifully in Little Andersen. They do not kill and sat dogs even in times of scatalty.

#### VEGETARIAN ITEMS (1) Honey (leh)

Them are two types of bees (Apis spp.) found in Dible Andaman—one small and another big. The smaller bees made in the be-three in the bottom of trees whereas the bigger once make them generally on bearobes of trees. The bire of the former is result weekly them. The size of the former is result weekly then the state. The results of these smaller been is believed to be more nutritional them this of the issent basis.

The Ongs are skilled in spotting out the bin-shiven. The trees having small best-leve in the hollows of a clean body at a considerable helping and the hollows of a clean body at a considerable helping are generally field for horse, collection where the regularities have shiven an approximate the whole are approximated the hollows are considerable to the spot of th

bucket, a kinfe end a mouthful of Tonigey leaves. On approaching the bee-blve they blove out the self-he unlead with the Julice of the leaves towards the bee-hive is order to apray the bees and filly them away. Then they cut the bee-hive and later extract honey ferm if by diest; presum-

#### (2) Fruits and Seeds

during rainy ceason.

The traits and seeds of the following trees are esten by the onge.

Balanchenger—The species was identified to be Artercaped. Chapteche. Probabilistic size of other Arcer spus species are also eater. The implementation of other architecture of and writpe order or eater. See some line and writpe order or eater. See some line and writpe order order or eater. See soot person writch states were and own is eater, and the seeds are stored for use cluring states are of the properties. The seed of the section of the seeds are stored for use cluring states are seen.

Gine—The fruits of Secourse septide which takes your are exten as such. These fruits are excitable during Agrill to June.

Despecto—The species is Pornetia plintets.
The fruit is dark purple and on creating the rind the flash is exposed, which tasks like likely. The seed is also shored for future use

Tolvi-The ripe fruits of Milmany litterally are eaten by cooking in December and January.

Mangrovo—The fruits of Tujandero (cariops candellesne) and Dabojes (Brugulers gymnorpize) are collected from sessions where they get deposited by the waves. They are boiled and seton by the Orge.

Pandanue—The fruits of 8AS (Pandanus app.) is cometimes beliefed and occess with housy but it is not very common. The Orige do not make Pandanus chaese which is characteristic of the Nicobesses Cooponit—Cooponit of the Nicobesses Cooponit—Cooponit and the Orige show increase in it by displayed and the Orige show increase in it by displayed. Occessed does not constitute an important lister of food of the Oras.

#### (3) Stem of plants

In time of our carries the Onges were sensor meeting pieces of histologous depth closed like recent gives of histologous depth closed with recent gives and the same. After a great close of enought and particular, the section set in the particular section of the section of the particular section. The section of the section particular section of the section of the particular section of the section of the particular section of the section of sectio

#### (4) Roots and Tubers

Two types of reots of climbers vis., Geopte and Chamachies visually referred to a virupit American and Chamachies visually referred to a virupit American charge to the set of control of the control of

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